| Index | of Claims |
|-------|-----------|
|       |           |
|       |           |
|       | FE        |

| Application No.   | Applicant(s)     |
|-------------------|------------------|
| 09/905,654        | JOSEPHSON ET AL. |
| Examiner          | Art Unit         |
| Edward M. Johnson | 1754             |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| С  | laim  | Т              |  | •             |              | Da           | ite        |          |                |  |   |
|--|---|----------------|--|---------------|--------------|--------------|------------|----------|----------------|--|---|
| -  |   | . 1            | Т                                      | Т             |              | Ť            | Т          | Т        | 7              | 7  | _ |
| <u></u>  | Original  | 20             |  |               |              |              |            |          |                |  |   |
| Final  | 5   | 16             | U.                                     |               | 1            |              |            |          | 1              |  |   |
| "  | 15  | 1              | ايَ                                    |               | Ī            |              |            |          |                |  |   |
| <u> </u>   |   | 0              | 3                                      | 1             |              | $\perp$      | 丄          | $\perp$  | 丄              | $\perp$  | _ |
| $\perp t$  | 1   | -5             | 21                                     |               |              | Τ.           | Т          |          |                |  |   |
| 2  | 2   | 1              |  | T             | T            | 7            | T          |          | 1              | 1  |   |
| 3  | 3   |                | $\top$                                 | $\top$        | 1            | ┰            | ╅┈         | +        | Ť              | +  | _ |
| 4  | 1 4   | +              | +                                      | +             | +-           | +            | +          | ╁        |                | +  |   |
| 120  | 5   | +(             | +-                                     |               | +            | +-           | +          | +-       | +              | +  |   |
| 15-  | 1 6   | +}             | +                                      | ┿             | +            | +-           | +          | +-       | ┰              | +  | _ |
|  | 1 5   | ╌┼╌┨           | +                                      | +             | +            | -├-          | ┿          |          | +-             |  | _ |
| 0  | <del>  '</del>  |                | +                                      | ╬-            |              | 1            |            | 1        | _              | +  | _ |
| 1  | 8   | $\perp$        | ╀                                      |               | 4            | ┷            |            |          |                |  |   |
| Ł(_  | 9   | Ц.             |  |               |              | <u> </u>     | ┸          |          |                |  |   |
| حسا  | 10  | Ш              |  |               |              |              |            |          | ļ              | 1  |   |
| 43   | 11  | П              | $\prod$                                |               |              |              |            | Т        | Г              |  | Ī |
| 14   | 12  | $\prod$        | T                                      |               | T            |              |            | T        | 1              |  |   |
| 15   | 13  | 77             |  | 1             | Т            | +            | 1          | †"       |                | 1  | 1 |
| 16   | 14  | #              | +                                      | 1-            | $^{+}$       | +            | +          | +        | +              | +  | + |
| 18   | 15  | #              | +-                                     | +             | +            | +            | +-         | +        | +              | +  | - |
| 113  | 16  | ╫              | +                                      | +             | +-           | +            | 1          | +        | ╁              | +  | 4 |
| 10   | 10  | ╫              | +                                      | ┿             | ┿            | +            | +          | +-       | +              | +  | 4 |
| 17   | 1/4   | #              | +                                      | +-            | - -          | +            | ╀          | +-       | +              | $\vdash$   | 4 |
| 14   | 4 18  | ++             | +                                      | <del>- </del> | ╀            | +            | +          | 1        | -              | <del> </del>                                     | Į |
| 2.   | 19  | 11             | -                                      | _             | ╀            | ļ.,          | -          | ┺        | ╄-             | $\bot$   | 4 |
| 23   | 20  | Ц              | ╀                                      | 1             | ┸            | ļ            |            | ╙        | <u> </u>       |  | ╛ |
| 33   | 21  | 11             | $\perp$                                |               | <u> </u>     |              |            | Ь.       |                | 1  |   |
| 24   | 22  | Ш              |  | L             |              |              | 1          | _] `     |                |  | 1 |
| 25   | 23  | П              |  | 1             |              | Т            |            | Π        | Ī              |  | ٦ |
| 27   | 24  | П              |  |               |              | Т            | Ι          |          |                |  | 1 |
| 21   | 25  | П              | Т                                      |               |              | 1-           |            | T        | 1              |  | 1 |
| 24   | 26  | 17             |  | 1             | $\top$       | $\top$       | T          | ┿        | 1              | †  | 1 |
| 30   | 27  | 11             | ╁┈                                     | t             | 1            | 1            | <b>†</b>   | +        | <del>† -</del> | ╁  | 1 |
| 31   | 28  | ╁              | †                                      | +             | ╁            | +            | $\dagger$  | 十        | ┰              | +  | 1 |
| 122  | 29  | +/-            | +                                      | +             | +            | +            | +          | ┿        | +              | ┼  | ł |
| 12.  | 30  | ╫              | ┿                                      | +             | $\vdash$     | +            | +          | ┿        | ┼-             | 1  | 1 |
| 77   | 24  | #-             | ╀                                      | ┢╌            | ┼            | ╁            | ┈          | 1        | ⊬              | <u> </u>   | ł |
| 74   | 31  | #-             | ╀                                      | +-            | ⊢            | ┼            | 1          | $\vdash$ | $\vdash$       | <u> </u>   | ł |
| 150  | 32  | ₩              | ـ                                      | 1             | _            | _            | _          | ⊢        | Ь.             | _  | 1 |
| 136  | 33  | #              | ــــــــــــــــــــــــــــــــــــــ | <u> </u>      | <u> </u>     | <del> </del> | <b> </b> _ | <u> </u> | <u> </u>       | <u> </u>   | 1 |
| 37   | 34  | Щ.             | _                                      | 1             | L            | <u> </u>     | <u> </u>   | <u> </u> | _              |  | Į |
| 138  | 35  | 11             | 1                                      | _             | $oxed{oxed}$ | $\perp$      |            | $\perp$  | L              | L  | ſ |
| 39   | 36  | $\sqcap$       | _                                      |               |              | L            |            | L        | L.             | Ľ  |   |
| 40   | 37  | $\coprod$      | $\Box$                                 | Ĺ             |              |              | Ĺ          | Ľ        | Ι              |  | 1 |
| 47   | 38  | $\prod$        | Γ                                      |               |              |              | Г          |          | T              |  | 1 |
| 48   | 39  | П              |  | Γ             |              |              |            | Г        | Γ              | 1  | 1 |
| 44   | 40  | П              | Τ                                      |               | Ι            | 1            |            | Γ        | 1              | П  | 1 |
| 50   | 41  | П              | 1                                      |               | 1            | ТT           | Г          | 1        |                | П  | 1 |
| 10   | 42  | Ħ              | T                                      | Ι-            | Т            |              |            | $\vdash$ |                | <del>                                     </del> | 1 |
| 6  | 1 2 3 4 4 5 5 6 6 7 7 8 8 9 9 100 111 122 133 144 155 166 27 22 233 24 245 25 26 27 28 29 30 31 32 33 334 35 36 37 38 39 40 41 42 43 44 | ††             | Τ.                                     | $\vdash$      | $\vdash$     |              |            | Η-       |                | H  | 1 |
| 12   | 44  | <del>   </del> | t                                      | <del> </del>  | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$ | <del>  -</del> | $\vdash$   | 1 |
| CARE   | 45  | ╁              | Η                                      |               | $\vdash$     | ١            | $\vdash$   | $\vdash$ | ├              | H  | ŀ |
| 1  | 46  | +              | -                                      |               | ├            | $\vdash$     | $\vdash$   | ├-       | ├              | $\vdash$   | ŀ |
| 2 10   | 47  | ╁              | -                                      | _             | $\vdash$     |              | $\vdash$   | ├-       | <del> </del>   | Н  | ĺ |
| 74   | 4/  | - -            | <del> </del>                           |               | -            |              | Η.         | ├        | H              | Щ  | ١ |
| 12344769111145687921222222233132545347444556355556 | 45<br>46<br>47<br>48<br>49<br>50  | ╁              | -                                      | $\vdash$      |              | $\vdash$     | ļ          | <u> </u> | Ш              |  | ١ |
| 17,4   | 49  | <del>  _</del> |  |               | <u> </u>     | $\Box$       | <b>.</b>   | <u> </u> | <u> </u>       | Ш  |   |
| 160  | 50  | =              | 1 1                                    | ł I           |              |              |            |          |                | ı 1  |   |

|  | aim   | ╀.       | _            |          |          | Da           | <u>ite</u>   | _              |  |                |
|--|---|----------|--------------|----------|----------|--------------|--------------|----------------|--|----------------|
| Ι.   | िल  | 21/85    | , Į          | 1        |          | 1            | -            |                |  |                |
| Final  | Original  | 51       | 1            |          |          |              | 1            |                |  |                |
| iĒ   | '⊱  | اکا ا    |              |          | ı        | -            |              |                |  | 1              |
| -  |   | 03       |              |          |          | -            |              |                |  |                |
| 61   | 51  | 15       | 1-           | +        | $\top$   | _ -          | +            | ╁              | +  | +              |
| 6.2  | 52  | +        | ╁            | ╈        | +        | +            | +            | +              | ╁  |                |
| 1.7  | 52  | +}       | ╁            |          | +        | +            | +-           | +-             |  | ┿              |
| 197  | 53  |          | ╁            | +        | ╬        | -            | +            | +              | +  | -              |
| ع ع  | 34  | -11      | ╀            | Ļ.       | - -      | <del> </del> | +            | ╄              | ┿-   |                |
| (Q)  | 55  | 11       | Ļ            | 4-       |          | 4            | _            | _              | <u>↓</u>   |                |
| 86   | 56  | 44       | L            |          | ┸        | Ц.           | _ _          | ┸              |  |                |
| 69   | 57  | ЦL       |              |          |          |              |              |                |  | _1             |
| 70   | 58  | 11       |              |          |          | Ţ            |              |                |  | Т              |
| 21   | 59  | П        | Г            | Т        | T        | 7            |              |                | Τ  | $\top$         |
| 72   | 60  | 11       | T            | 1        | 1        |              | <del> </del> | -              | $\top$   |                |
| 72   | 61  | 1        | t            |          | ╈        | +            | Ť            | +              | +  | +              |
| 61<br>62<br>63<br>86<br>64<br>70<br>71<br>72<br>73       | 62  | =        | т            | +-       | ╅        | +            | +            | +              |  | +              |
| 1  | 82  | +~       | 1-           | +        | +        | +            | +            | +              | +  | +-             |
| $\vdash$   | +32   | +        | $\vdash$     | +-       | +        | +            | +            | <del> </del> - | +  | +              |
| :  | 1 34  | +        | -            | +        | $\perp$  | +            | ļ.,          | - -            | $\perp$  | _              |
| <u> </u>   | 95  | +        | <del> </del> | +        | $\perp$  |              | $\perp$      | $\perp$        | 1  | 4_             |
|  | 66  | <u> </u> | ╙            | _        |          | $\perp$      |              | 1              |  |                |
| <u> </u>   | 67  |          | ┖            | 1_       |          | _            |              | Т.             |  |                |
|  | 68  |          | _            |          |          |              |              | _[_            |  |                |
|  | 69  |          | L            |          |          |              |              | Ţ              | 1  | Т              |
|  | 70  | Т        |              |          |          | Т            | 1            | T              | T  | 1              |
|  | 7/1   | $\top$   | 1-           |          |          | 丁            |              |                |  |                |
| Ĭ  | 72  | 1        |              | İ        | T        | $\top$       |              |                | 1-   | +              |
|  | 78  |          | T            | 1        | Ť        | T            | Ť            | +              | +  | ${}^{\dagger}$ |
|  | 74  | 1        | Ι            |          | T        | +            | +            | ✝              | T  | $\vdash$       |
|  | 75  | ┼        |              | T        | T        | 1-           |              | 1              | ╁┈   | ╁              |
|  | 76  |          | $\vdash$     | 1-       | +        | ╁            | +            | ╁              | +  | +              |
| -  | 77  | $\vdash$ | -            | +        | 1        | +            | ┼—           | ╁              | ╁  | <del> </del>   |
|  | 78  | 1        |              | +        | +-       | +            | +            | ┢              | ╁  | ╁              |
| $\vdash$   | 70  | $\vdash$ |              | ┼        | ┿        | +            | +            | ┼—             | ╀  | ┢              |
|  | 49  | 1_       |              | +        | _        | ┿            | ╂            | ╀              | +  | -              |
| 5  | 80  | 1        | _            | _        | ╄        | ₩            | 1            | ╄-             | <u>.</u>   | ┡              |
| 41   | 81  | ₩        |              | ١        | ╄-       | 4_           | 1            | <u> </u>       | _  | _              |
| 560  | 82  | Ш        |              | <u> </u> | _        | <u> </u>     | Ц.           |                |  | <u> </u>       |
| 67   | 83  | Ш        |              |          |          | <u> </u>     |              |                |  |                |
| 10   | 84  | Ш        |              |          |          |              |              |                |  |                |
| 41<br>56<br>67<br>10<br>26<br>42<br>58<br>77<br>78<br>79 | 85  | $\prod$  |              |          | L        |              |              |                | ſ  | Γ              |
| 42   | 86  | П        |              | Ī        |          |              |              |                |  | Γ"             |
| 64   | 87  | Ш        |              |          |          |              | 1            |                | T  |                |
| 25   | 88  | $\sqcap$ |              | f        | $\vdash$ | 1            |              |                | ⇈  |                |
| 76   | 89  | Н        |              |          | ĺ        | <u> </u>     | $\vdash$     | $\vdash$       | <del>                                     </del> | ┞              |
| 77   | 90  | ╁╊╌┤     |              |          | 一        | ╁            |              | ├~             | H  | ←              |
| 70   | 01  | ╁┼┼┤     |              | $\vdash$ | ├-       | +            | $\vdash$     | ┼─             | $\vdash$   | ├              |
| 100  | 02  | =        | _            |          | $\vdash$ | $\vdash$     | ⊢            | $\vdash$       | ⊢  | <del> </del> — |
| 177  | 92  | -        |              |          |          | <u> </u>     |              | 1              | ├  | $\vdash$       |
|  | 30  | $\vdash$ |              | ⊢        | ⊢        | <u> </u>     | ٠            | _              | <b>⊢</b> -                                       | <u> </u>       |
| $\vdash$   | 94  | $\sqcup$ |              | <u> </u> | _        | <u> </u>     |              | _              | L  | _              |
| لحط  | 95  |          |              | _        |          | <u> </u>     |              | _              |  | <u>L</u> .     |
| 43   | 96  | =        |              |          | <u> </u> | 乚            |              |                | _  | L              |
| 44   | 97  | Ш        |              |          |          | L            |              | L              |  |                |
| 43<br>44<br>45   | 98  | Ш        |              |          | L        | L            |              |                |  |                |
| 46   | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>78<br>7 | Ш        |              |          |          |              |              |                |  |                |
| 40   | 100   | =        |              |          |          |              |              |                |  |                |

|                                       | J          |          | •        |              |                |          |           |              |           |              |          |  |
|---------------------------------------|------------|----------|----------|--------------|----------------|----------|-----------|--------------|-----------|--------------|----------|--|
| Claim                                 |            | Date     |          |              |                |          |           |              |           |              |          |  |
| Final                                 | Original   | 1/21/03  |          |              |                |          | Ĭ         |              | 3         |              |          |  |
| 87                                    | 101        | 살        | -        | $\vdash$     | ╁              | ╁        | +         | +            | $\dashv$  |              |          |  |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 102        |          | <u> </u> | ╁            | +              | +        | +         | +            | +         |              |          |  |
|                                       | 103        |          | ┢╌       | t            | +              | +-       | +         | $\top$       | +         |              | _        |  |
|                                       | 104        |          |          | T            | 十              | $\top$   | $^{+}$    | $\top$       | -         | _            |          |  |
|                                       | 105        |          |          | Т            | İ              | 1        | 1         | $\top$       |           |              |          |  |
|                                       | 106        |          |          |              |                | 7        | 1         |              |           |              |          |  |
|                                       | 107        |          | L        |              |                | L        |           |              |           |              |          |  |
| <u> </u>                              | 108        |          | <u> </u> | L            |                |          |           |              | $\perp$   |              |          |  |
|                                       | 109        |          |          |              | <del> </del> _ | ╀        | ļ         | $\downarrow$ | 4         |              |          |  |
| <u> </u>                              | 110        |          | <u> </u> | ⊢            | -              | ╁-       | +         | 4            | 4         |              |          |  |
|                                       | 111        |          | $\vdash$ | ⊢            | $\vdash$       | -        | +         | +            | +         |              | -        |  |
| <del></del>                           | 112<br>113 | -        | ⊢        | <del> </del> | ╁              | +        | ┿         | +            | +         | $\dashv$     | -        |  |
|                                       | 114        |          |          | $\vdash$     | ╁╌             | +        | +         | +            | ┽         | $\dashv$     | $\dashv$ |  |
|                                       | 115        |          |          | ┢            | +-             | +        | +         | +            |           | $\dashv$     | $\dashv$ |  |
|                                       | 116        |          |          |              |                | +        | ┰         | +            | +         | ┪            |          |  |
|                                       | 117        |          |          |              | 1              | T        | $\dagger$ |              | $\dagger$ | 7            |          |  |
|                                       | 118        |          |          |              |                | $\top$   | T         | 7            | T         |              |          |  |
|                                       | 119        |          |          |              |                |          | L         |              | 7         |              |          |  |
|                                       | 120        | _        |          |              |                |          | L         |              | 1         |              |          |  |
|                                       | 121        | -4       |          | _            |                |          | Ļ         | $\perp$      | 4         | _            |          |  |
|                                       | 122        | $\dashv$ |          |              |                | ╀        | ╀         | 1            |           | 4            | _        |  |
|                                       | 123        |          |          |              |                | 1        | +         | ┿.           | +         | 4            | _        |  |
| -                                     | 124<br>125 |          |          |              |                | ┼        | ╁         | -            | +         | $\dashv$     |          |  |
|                                       | 126        | $\dashv$ |          | -            |                | +        | ╁         | ╁            |           | $\dashv$     |          |  |
|                                       | 127        | $\dashv$ | -        |              |                | $\vdash$ | ┿         | ╁            | $^{+}$    | $\dashv$     | $\dashv$ |  |
|                                       | 128        | 1        |          | Ι-           |                | $\vdash$ | ╁         | +            | Ť         | 十            | ┪        |  |
|                                       | 129        | 寸        |          |              | İ              | T        | T         | $\top$       | ✝         | -+           |          |  |
|                                       | 130        |          |          |              |                |          | Τ         | 1            | T         | $\exists$    |          |  |
|                                       | 131        |          |          |              |                |          |           |              | T         |              |          |  |
|                                       | 132        | _        |          |              |                |          |           | $\perp$      |           |              |          |  |
|                                       | 133        | _        | _        | <u> </u>     |                | <u> </u> | L         | _            | 1         |              | _        |  |
|                                       | 134<br>135 | $\dashv$ |          |              |                | ļ        | ┡         | ╄            | +         | $\downarrow$ |          |  |
| -                                     | 136        | -        |          |              |                | ⊢        | ╁         | ╁┈           |           | 4            |          |  |
| _                                     | 137        | +        |          |              |                | -        | ╁         | +            | +         | +            | $\dashv$ |  |
|                                       | 138        | +        | -        |              |                | H        | 1         | +            | +         | $\dashv$     |          |  |
|                                       | 139        | _        |          |              |                | H        | ╁╴        | +            | +         | +            | -        |  |
|                                       | 140        | 寸        |          |              |                | Т        |           | T            | T         | ┪            | $\dashv$ |  |
|                                       | 141        |          |          |              |                | Г        | T         |              | T         | T            | ヿ        |  |
|                                       | 142        |          |          |              |                |          |           | 1            | Ι         |              |          |  |
|                                       | 143        | _Ţ       | ┚        |              |                |          |           | L            | Ţ         | I            | $\Box$   |  |
| _                                     | 144        | 4        |          | _            |                | Ļ.       | Ĺ         |              | $\perp$   | 4            | _        |  |
|                                       | 145        |          | 4        | _            |                |          | L         | 1            | +         | 4            | _        |  |
| $\dashv$                              | 146<br>147 | -        | $\dashv$ | -            |                | <u> </u> |           | ╀            | ╀         | +            |          |  |
| -                                     | 148        |          | $\dashv$ | -            | _              |          |           | +            | +         | - -          | $\dashv$ |  |
|                                       | 149        | +        | $\dashv$ | $\dashv$     |                |          | $\vdash$  | +            | ╁         | +            | $\dashv$ |  |
|                                       | 150        |          | $\dashv$ | $\dashv$     |                |          |           | +            | +         |              | -        |  |
|                                       | 100        |          |          | !            |                |          | <u> </u>  | _            |           | $\perp$      |          |  |